PATENT ATTORNEY DOCKET NO.: JHU1630

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Sukumar et al.

Art Unit:

Unassigned

Application No.:

09/771,357

Examiner:

Unassigned

Filed:

January 26, 2001

Title:

ABERRANTLY METHYLATED GENES AS MARKERS OF BREAST

MALIGNANCY

Commissioner for Patents Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and a copy of each is enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

Signature

CERTIFICATION UNDER 37 CFR §1.8 I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date, April 26, 2001, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231. Cecilia Tobin Name of Person Mailing Paper April 26, 2001

Date

Gray Cary\GT\6235158.1 104659-9

In re Application of:

Sukumar et al.

Application No.: 09/771,357 Filed: January 26, 2001

Page 2

PATENT
Attorney Docket No.: JHU1630

No fee is deemed necessary in connection with the filing of this Information

Disclosure Statement, because it is being filed prior to the receipt of a first office action on the merits of the above-captioned application. However, if any fee is required, authorization is hereby given charge any fees associated with the filings submitted herewith, or credit any overpayment to Deposit Account No. 50-1355. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: _____April 26, 2001

Lisa A. Haile, Ph.D.

Registration No. 38,347 Telephone: (858) 677-1456 Facsimile: (858) 677-1465

GRAY CARY WARE & FREIDENRICH LLP 4365 Executive Drive, Suite 1600 San Diego, CA 92121-2189





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TRANSMITTAL SHEET

Sir:

Transmitted herewith for the above-identified application please find:

- Information Disclosure Statement (2 pages);
- 2. Form PTO-1449 (2 pages);
- Three (3) U.S. Patent Documents; 3.
- Eight (8) Other Documents; and 4.
- Return Receipt Postcard. 5.

CERTIFICATION UNDER 37 CFR §1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on this date, April 26, 2001, in an envelope addressed to:

Commissioner for Patents, Washington, D.C. 20231.

Cecilia Tobin

(Name of Person Mailing Paper)

(Signature)

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PATENT Attorney Docket No.: JHU1630

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USPTO Customer Number 28213

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. (Optional) JHU1630 O/ Application No.: 09/771,357
	Applicants: Sukumar et
INFORMATION DISCLOSURE	Filing Date: Group Art Unit:
STATEMENT BY APPLICANT	January 26, 200 KMARK OF Unassigned

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	5,786,146	07/28/98	Herman et al.			
	AB	6,017,704	01/25/00	Herman et al.			
	AC	6,200,756 B1	03/13/01	Herman et al.			

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
	NONE					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

A	AD	Baylin and Herman, "DNA hypermethylation in tumorigenesis," TIG 16 (4):168-174 (2000)
A	AE	Ferguson, et al., "High frequency of hypermethylation at the 14-3-3 σ locus leads to gene silencing in breast cancer," PNAS 97 (11):6049-6054 (2000)
A	AF	Ferguson, et al., "Demethylation of the Estrogen Receptor Gene in Estrogen Receptor- negative Breast Cancer Cells Can Reactivate Estrogen Receptor Gene Expression," Cancer Research 55:2279-2283 (1995)
A	AG	Nass, et al., "Aberrant Methylation of the Estrogen Receptor and E-Cadherin 5' CpG Islands Increases with Malignant Progression in Human Breast Cancer," Cancer Research 60:4346-4348 (2000)

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	Docket No. (Optional)	Application No.:
U.S. Department of Commerce Patent and	JHU1630	09/771,357
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	Applicants:	*)
	Sukuma et al.	/
INFORMATION DISCLOSURE	Filing Date:	Group Art Unit:
STATEMENT BY APPLICANT	January 26, 2001	Unassigned

AH	Ottaviano, et al., "Methylation of the Estrogen Receptor Gene CpG Island Marks Loss of Estrogen Receptor Expression in Human Breast Cancer Cell," Cancer Research 54:2552-2555 (1994)
AI	Raman, et al., "Compromised HOXA5 function can limit p53 expression in human breast tumours," <i>Nature</i> 405: 974-976 (2000)
AJ	Raman, et al., "HOXA5 Regulates Expression of the Progesterone Receptor," <i>The Journal of Biological Chemistry</i> 275 (34):26551-2655 (2000)
AK	Sirchia, et al., "Evidence of epigenetic changes a ecting the chromatin state of the retinoic acid receptor β 2 promoter in breast cancer cells," Oncogene 19:1556-1563 (2000)

EXAMINER	DATE CONSIDERED	

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Form 1449